

#### according to 1907/2006/EC, Article 31

Version number 7 (replaces version 6) Printing date 31.01.2022 Revision: 31.01.2022

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1 Product identifier

- UFI:

**KEMPERDUR HB Coating (B)** - Trade name:

- 1.2 Relevant identified uses of the

substance or mixture and uses advised

against

Identified use: intended for professional use only!

- Application of the substance / the mixture - 1.3 Details of the supplier of the safety data sheet

KEMPER SYSTEM GmbH & Co. KG - Manufacturer/Supplier:

Holländische Strasse 32-36

DMK6-90K1-K002-5GS7

34246 Vellmar

Deutschland / Germany Telefon: +49 (0)561 / 8295-0 Telefax: +49 (0)561 / 8295-5110 E-Mail: MSDS@KEMPER-SYSTEM.COM

- Further information obtainable from: research & development

- 1.4 Emergency telephone number: Giftinformationszentrum der Länder Rheinland-Pfalz und Hessen

Langenbeckstraße 1; Gebäude 601; 55131 Mainz

Tel. Nr.: +49 (0)6131 / 19 24 0

Universitätsmedizin der Johannes Gutenberg-Universität Mainz

#### **SECTION 2: Hazards identification**

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008

Acute Tox. 4 H332 Harmful if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction. STOT SE 3 H335 May cause respiratory irritation.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

- Labelling according to Regulation (EC) No

1272/2008

- Hazard pictograms

- Hazard statements

- Precautionary statements

- Additional information:

The product is classified and labelled according to the CLP regulation.





- Signal word Warning

- Hazard-determining components of

labelling:

Hexamethylene diisocyanate, oligomers

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Hexamethylene diisocyanate, oligomers; Uretdion type

Isophorondiisocyanate homopolymer

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate hexamethylene-di-isocyanate

H332 Harmful if inhaled.

H317 May cause an allergic skin reaction. H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor if you feel unwell. P312

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

EUH204 Contains isocyanates. May produce an allergic reaction.

As from 24 August 2023 adequate training is required before industrial or professional use.

- 2.3 Other hazards

- Results of PBT and vPvB assessment - PBT: Not applicable.



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(Contd. of page 1) - vPvB: Not applicable.

#### **SECTION 3: Composition/information on ingredients**

- 3.2 Mixtures

- Description:	Mixture: consisting of the following components.	
- Dangerous componer	nts:	
CAS: 28182-81-2 NLP: 500-060-2	Hexamethylene diisocyanate, oligomers Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	25-50%
CAS: 53880-05-0 EC number: 931-312-3	Isophorondiisocyanate homopolymer Skin Sens. 1, H317; STOT SE 3, H335	25-50%
CAS: 28182-81-2 NLP: 500-060-2	Hexamethylene diisocyanate, oligomers; Uretdion type Acute Tox. 3, H331; Skin Sens. 1, H317; STŌT SE 3, H335	≥12.5-<20%
CAS: 28182-81-2 NLP: 500-060-2	Hexamethylene diisocyanate Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	≥12.5-<20%
EC number: 919-446-0	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) Flam. Liq. 3, H226; STOT RE 1, H372; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	≥2.5-<10%
EC number: 918-668-5	hydrocarbons, C9, aromatic Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336, EUH066	2.5-10%
CAS: 4098-71-9 EINECS: 223-861-6	3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate  Acute Tox. 1, H330; Resp. Sens. 1, H334; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204  Specific concentration limits: Resp. Sens. 1; H334: C ≥ 0.5 %  Skin Sens. 1; H317: C ≥ 0.5 %	≥0.1-<0.25%
CAS: 822-06-0 EINECS: 212-485-8	hexamethylene-di-isocyanate  Acute Tox. 1, H330; Resp. Sens. 1, H334; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204  Specific concentration limits: Resp. Sens. 1; H334: C ≥ 0.5 %  Skin Sens. 1; H317: C ≥ 0.5 %	≥0.1-<0.5%

- Additional information: For the wording of the listed hazard phrases refer to section 16.

#### **SECTION 4: First aid measures**

- 4.1 Description of first aid measures

- General information: Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48

hours after the accident.

Do not leave affected persons unattended. Personal protection for the First Aider.

Take affected persons out of danger area and lay down. In case of unconsciousness place patient stably in side position for transportation.

Supply fresh air; consult doctor in case of complaints.

Immediately wash with water and soap and rinse thoroughly.

Seek medical treatment in case of complaints.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Protect unharmed eye.

If symptoms persist consult doctor.

- 4.2 Most important symptoms and effects,

both acute and delayed

- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

No further relevant information available.

#### **SECTION 5: Firefighting measures**

- 5.1 Extinguishing media

- After inhalation:

- After skin contact:

- After eye contact:

- After swallowing:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. - Suitable extinguishing agents:

Use fire extinguishing methods suitable to surrounding conditions.

- For safety reasons unsuitable extinguishing

Water with full jet

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

Nitrogen oxides (NOx) Carbon monoxide (CO)

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- 5.3 Advice for firefighters
 - Protective equipment:
 Do not inhale explosion gases or combustion gases.

- Additional information Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

**SECTION 6: Accidental release measures** 

- 6.1 Personal precautions, protective

**equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away.

Avoid contact with skin and eyes Ensure adequate ventilation

- **6.2 Environmental precautions:** Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water. Prevent from spreading (e.g. by damming-in or oil barriers).

- 6.3 Methods and material for containment

and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Do not flush with water or aqueous cleansing agents See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**SECTION 7: Handling and storage** 

- **7.1 Precautions for safe handling**Store in cool, dry place in tightly closed receptacles.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Store only in the original receptacle.

- 7.2 Conditions for safe storage, including any incompatibilities

- Storage

- Requirements to be met by storerooms and

receptacles:

- 6.4 Reference to other sections

- Information about storage in one common

storage facility:

- Further information about storage

conditions:

Store away from foodstuffs.

Store in dry conditions.

Protect from frost.

Keep container tightly sealed.

Recommended storage temperature: 5-30 °C

- Storage class:

- 7.3 Specific end use(s) No further relevant information available.

#### **SECTION 8: Exposure controls/personal protection**

- 8.1 Control parameters

- Ingredients with limit values that require monitoring at the workplace:

4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

OEL Long-term value: 0.005 ppm

Sens

822-06-0 hexamethylene-di-isocyanate

OEL Long-term value: 0.005 ppm

as -NCO, Sens

Regulatory information
 Additional information:
 OEL: 2021 CoP for the Safety, Health and Welfare at Work
 The lists valid during the making were used as basis.

- 8.2 Exposure controls

Appropriate engineering controls
 Individual protection measures, such as personal protective equipment

- General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- Respiratory protection: When used properly and under normal conditions, breathing protection is not required.

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A/P2

Respiratory protection - Gas filters and combination filters according to (DIN EN 141)

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- Hand protection

- Material of gloves

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Protective gloves

Check protective gloves prior to each use for their proper condition. Only use chemical-protective gloves with CE-labelling of category III.

The glove material has to be impermeable and resistant to the product/ the substance/ the

preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

After use of gloves apply skin-cleaning agents and skin cosmetics. Recommended materials:

ust describe as DD

Butyl rubber, BR

Recommended thickness of the material: ≥ 0.5 mm

Penetration time (min.): < 480

The selection of the suitable gloves does not only depend on the material, but also on further marks of

quality and varies from manufacturer to manufacturer.

- Penetration time of glove material

The determined penetration times according to EN 16523-1:2015 are not performed under practical

conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is

recommended. - As protection from splashes gloves made of

the following materials are suitable:

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.1 mm

Penetration time (min.): < 10

- Eye/face protection

Tightly sealed goggles

- Body protection: protective clothing (EN 13034)

#### **SECTION 9: Physical and chemical properties**

- 9.1 Information on basic physical and chemical properties

- General Information

- Colour: Clear

Odour: CharacteristicOdour threshold: Not determined.

- Melting point/freezing point:
 - Boiling point or initial boiling point and boiling range
 Undetermined.
 137 °C

Flammability Not applicable.

- Lower and upper explosion limit

- Lower: Not determined.
- Upper: Not determined.
- Flash point: 69 °C (ISO 3679)

- Auto-ignition temperature:
 - Decomposition temperature:
 - Not determined.

- pH Not determined.
- Viscosity:

- Kinematic viscosity at 20 °C 2,500 mm²/s
- Dynamic: Not determined.

- Solubility

- Partition coefficient n-octanol/water (log value) Not determined.

- Density and/or relative density

Density at 20 °C:
 Relative density
 Vapour density
 Not determined.
 Not determined.

- 9.2 Other information

- Appearance:

Fluid

Not miscible or difficult to mix.

- Form:
- Important information on protection of health and environment, and on

safety.

- Explosive properties: Not determined.

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- Solvent separation test: - VOC (EC)	2.45 %	
- VOC (EC) - Change in condition	2.45 %	
- Evaporation rate	Not determined.	
- Information with regard to physical haz	ard classes	
- Explosives	Void	
- Flammable gases		
- Aerosols	Void	
	Void	
- Oxidising gases	Void	
- Gases under pressure	Vold	
·	V-:-	
- Flammable liquids	Void	
	Void	
- Flammable solids	Void	
- Self-reactive substances and mixtures	Void	
	Void	
- Pyrophoric liquids	Void	
- Pyrophoric solids	void	
	Void	
- Self-heating substances and mixtures		
- Substances and mixtures, which emit fi	Void  Ammable gases in contact with	
water	animable gases in contact than	
	Void	
- Oxidising liquids	Void	
- Oxidising solids	void	
	Void	
- Organic peroxides	Void	
- Corrosive to metals		
- Desensitised explosives	Void	
	Void	

No decomposition if used according to specifications.

Exothermic reaction with amines and alcohols; gradual development of CO2 with water, pressure build-up

#### **SECTION 10: Stability and reactivity**

- 10.1 Reactivity No further relevant information available.

- 10.2 Chemical stability

- Thermal decomposition / conditions to be avoided:

- 10.3 Possibility of hazardous reactions

in closed containers; risk of bursting. - 10.4 Conditions to avoid No further relevant information available.

- 10.5 Incompatible materials: No further relevant information available. - 10.6 Hazardous decomposition products: No dangerous decomposition products known.

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- 11.2 Information on other hazards - Endocrine disrupting properties None of the ingredients is listed.

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- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 - Acute toxicity Harmful if inhaled.	
· · · · · · · · · · · · · · · · · · ·	
- LD/LC50 values relevant for classification:	
28182-81-2 Hexamethylene diisocyanate, oligomers	
Oral LD50 >5,000 mg/kg (rat) (OECD 423; female)	
Dermal LD50 >2,000 mg/kg (rat) (OECD 402)	
>2,000 mg/kg (rabbit)	
Inhalative LC50/4 h 0.39 mg/l (rat) (OCED 403; Pauluhn, J. (2008).)	
53880-05-0 Isophorondiisocyanate homopolymer	
Oral LD50 >14,000 mg/kg (rat) (OECD 401)	
Inhalative LC50/4 h >5 mg/l (rat)	
28182-81-2 Hexamethylene diisocyanate, oligomers; Uretdion type	
Oral LD50 >5,665 mg/kg (rat) (OECD 401)	
Dermal LD50 >2,000 mg/kg (rat) (OECD 402)	
Inhalative LC50/4 h 0.158 mg/l (rat)	
ATEmix 0.5 mg/l (rat) (*2)	
28182-81-2 Hexamethylene diisocyanate	
Oral LD50 >2,500 mg/kg (rat) (OECD 423; female)	
Dermal LD50 >2,000 mg/kg (rat) (OECD 402)	
>2,000 mg/kg (rabbit)	
Inhalative LC50/4 h 0.39 mg/l (rat) ((dust & fork) OCED 403; Pauluhn, J. (2008).)	
ATEmix 1.5 mg/l (rat) (*2)	
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	
Oral LD50 >15,000 mg/kg (rat) (OECD 401)	
Dermal LD50 >3,400 mg/kg (rat) (OECD 402)	
hydrocarbons, C9, aromatic	
Oral LD50 >3,492 mg/kg (rat) (OECD 401)	
Dermal LD50 >3,160 mg/kg (rabbit) (OECD 402)	
4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	
Inhalative LC50/4 h 0.05 mg/l (ATE)	
822-06-0 hexamethylene-di-isocyanate	
Oral LD50 959 mg/kg (rat) (OECD 401)	
Dermal   LD50   >7,000 mg/kg (rat) (OECD 402)	
Inhalative LC50/4 h 0.124 mg/l (rat) (OECD 403)	
ATEmix 1.5 mg/l (rat) (*2)	
- <b>Skin corrosion/irritation</b> Based on available data, the classification criteria are not met.	
- Serious eye damage/irritation Based on available data, the classification criteria are not met.	
- Respiratory or skin sensitisation May cause an allergic skin reaction.	
<ul> <li>- Germ cell mutagenicity</li> <li>- Carcinogenicity</li> <li>- Based on available data, the classification criteria are not met.</li> <li>- Based on available data, the classification criteria are not met.</li> </ul>	
- <b>Reproductive toxicity</b> Based on available data, the classification criteria are not met.	
- STOT-single exposure May cause respiratory irritation.	
- STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.	
- <b>Aspiration hazard</b> Based on available data, the classification criteria are not met.	
- Additional toxicological information:  * 2 Comment on ATE Information test atmosphere dust / mist:  The test state and a second state of the sec	4!
The test atmosphere generated in the animal study is not representative of the workplace situathe way the substance is marketed or likely to be used. That's why it can	ation,
Test result can not be used directly for hazard assessment. Based on a	
Expert judgment and weight-of-evidence is a modified classification of the acute	
Inhalation toxicity justified. Investigation on a comparable product.	
Method: Expert assessment of the manufacturer 11.2 Information on other hazards	





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- 12.5 Results of PBT and vPvB assessment

- 12.6 Endocrine disrupting properties

Not applicable. Not applicable.

- PBT:

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12.1 Tox	city
Aquatic t	•
	-2 Hexamethylene diisocyanate, oligomers
ErC50	>1,000 mg/l (DESMODESMUS SUBSPICATUS) (0-72h static / EU C.3)
	>199 mg/l (Scenedesmus subspicatus) (72h; guideline 67/548/EWG annex V; C3)
EC50	>100 mg/l (DESMODESMUS SUBSPICATUS) (72; OECD 201)
	>100 mg/l (Daphnia magna) (48h)
EC50	>10,000 mg/l (Belebtschlamm) (3h, EG/RL 88-302-EEC)
EC50	>1,000 mg/l (Scenedesmus subspicatus) (72h / DIN 38412)
	127 mg/l (daphnia) (48h static / EU C.2)
LC 50	8.9 mg/l (Brachydanio rerio (Ricefish))
LC50	>100 mg/l (Danio rerio (Zebrabärbling)) (96h)
53880-05	-0 Isophorondiisocyanate homopolymer
LC50/96	h >1.51 mg/l (Cyprinus Carpio) (Richtlinie 67/548/EWG, Anhang V, C.1.)
EC50	>3.36 mg/l (Daphnia magna) (OECD 202)
EC50	>10,000 mg/l (Belebtschlamm) (OECD 209)
28182-81	-2 Hexamethylene diisocyanate, oligomers; Uretdion type
ErC50	50-100 mg/l (Scenedesmus subspicatus) (72h; guideline 67/548/EWG annex V; C3)
EC50	>100 mg/l (Daphnia magna) (48h, guildline 67/548/EWG annnex 5, V2)
EC50	>5,560 mg/l (Belebtschlamm) (OECD 209)
28182-81	-2 Hexamethylene diisocyanate
ErC50	>1,000 mg/l (DESMODESMUS SUBSPICATUS) (0-72h static / EU C.3)
	>199 mg/l (Scenedesmus subspicatus) (72h; guideline 67/548/EWG annex V; C3)
EC50	>100 mg/l (DESMODESMUS SUBSPICATUS) (72; OECD 201)
	>100 mg/l (Daphnia magna) (48h)
EC50	>10,000 mg/l (Belebtschlamm) (3h, EG/RL 88-302-EEC)
EC50	>1,000 mg/l (Scenedesmus subspicatus) (72h / DIN 38412)
	127 mg/l (daphnia) (48h static / EU C.2)
LC 50	8.9 mg/l (Brachydanio rerio (Ricefish))
LC50	>100 mg/l (Danio rerio (Zebrabärbling)) (96h)
Hydrocai	rbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
LL 50	10 mg/l (Oncorhynchus mykiss (Regenbogenforelle)) (96h; OECD 203)
NOELR	0.13 mg/l (Oncorhynchus mykiss (Regenbogenforelle)) (72h)
EL50	4.6 mg/l (Pseudokirchneriella subcapitata) (72h; OECD 201)
	10 mg/l (Daphnia magna) (48h; OECD 202)
NOEC	97 mg/kg (Daphnia magna) (21 days)
hydrocar	bons, C9, aromatic
LL 50	9.2 mg/l (Oncorhynchus mykiss (Regenbogenforelle)) (96h; OECD 203)
EL50	2.9 mg/l (Pseudokirchneriella subcapitata) (72h; OECD 201)
	3.2 mg/l (Daphnia magna) (48h; OECD 202)
EC50	>99 mg/l (Belebtschlamm) (10 min.; OECD 209)
822-06-0	hexamethylene-di-isocyanate
ErC50	>77.4 mg/l (DESMODESMUS SUBSPICATUS)
LC50/96	22 mg/l (Brachydanio rerio (Ricefish))
NOEC	11.7 mg/l (DESMODESMUS SUBSPICATUS) (72 h - EU method C.3)
EC0	>89.1 mg/l (daphnia) (48 hour - EU C.2)
EC50	842 mg/l (Bacteria) (3h-static - OECD 209)
LOEC	12.6 mg/l (DESMODESMUS SUBSPICATUS) (72 h - EU method C.3)
	sistence and degradability  No further relevant information available.

The product does not contain substances with endocrine disrupting properties.

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- 12.7 Other adverse effects

- Remark: Harmful to fish

- Additional ecological information:

- General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage

system.

Harmful to aquatic organisms

#### **SECTION 13: Disposal considerations**

- 13.1 Waste treatment methods

Recommendation
 Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Disposal according to official regulations

- European waste catalogue

08 05 01\* waste isocyanates

15 01 10\* packaging containing residues of or contaminated by hazardous substances

17 02 03 plastic

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

#### **SECTION 14: Transport information**

- 14.1 UN number or ID number

- ADR, ADN, IMDG, IATA Void

- 14.2 UN proper shipping name

- ADR, ADN, IMDG, IATA Void

- 14.3 Transport hazard class(es)

- ADR, ADN, IMDG, IATA

- Class Void

- 14.4 Packing group

- ADR, IMDG, IATA Void

- 14.5 Environmental hazards:

- Marine pollutant: No

- 14.6 Special precautions for user Not applicable.

- 14.7 Maritime transport in bulk according to IMO instruments Not applicable.

- UN "Model Regulation": Void

#### **SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- Named dangerous substances ANNEX I None of the ingredients is listed.

- REGULATION (EC) No 1907/2006 ANNEX

XVII Conditions of restriction: 3, 74

- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II

None of the ingredients is listed.

- REGULATION (EU) 2019/1148
- Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

- Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

- Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

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- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out. (Contd. of page 8)

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

The safety data sheet issued is also compliant with the regulation Annex I of Regulation (EU) no. 453/2010 and Annex II of Regulation (EU) no. 2020/878.

- Relevant phrases

H226 Flammable liquid and vapour. Harmful if swallowed. H302

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

Fatal if inhaled. H330

research & development

research & development

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H331 Toxic if inhaled. H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H372 Causes damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking. EUH204 Contains isocyanates. May produce an allergic reaction.

- Department issuing SDS:

- Contact: - Date of previous version:

- Version number of previous version: - Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International

Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids – Category 3 Acute Tox. 1: Acute toxicity – Category 1 Acute Tox. 3: Acute toxicity – Category 3 Acute Tox. 3. Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Resp. Sens. 1: Respiratory sensitisation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

- Sources - www.echa.europa.eu

www.baua.de

IFA: Institute für Occupational Safety and Health of the German Social Accident Insurance:

- www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index.jsp

- www.dguv.de/ifa/gestis/gestis-dnel-liste

- \* Data compared to the previous version altered.